

| Main Hall   |  |   | Room1  |               |  |  |                    |  |
|---|--|---|--|---------------|--|--|--------------------|--|
| Registration<br>9:00 - 9:15   |  |   | Exhibition<br><br>all time   |               |  |  |                    |  |
| Welcome Address<br>9:15 - 9:30  |  | Yasushi Ikeda   |  |               |  | Metabolic Leaf   | Bojan Milan        |  |
| Keynote Lecture X-1<br>9:30 - 10:15   | <b>Jesse Reiser</b><br>Architect, Reiser + Umemoto /Princeton University   | introduction:<br>Hideto Horiike   |  |               |  | Geometrical designing of lamp shades making use of rapid prototyping system                      | Hiroataka Suzuki   |  |
| Keynote Lecture X-2<br>10:15 - 11:00  | <b>Makoto Sei Watanabe</b><br>Architect, Makoto Sei Watanabe/Architect's Office  | introduction:<br>Keisuke Toyoda   |  |               |  | Design by Human Behavior   | Norihisa Kawashima |  |
| Panel Discussion<br>11:00 - 12:15   | <b>Daisuke Hirose, Taichi Sunayama</b><br><b>Keisuke Toyoda, Tsukasa Takenaka,</b><br><b>Daisuke Nagatomo Jyunichiro Horikawa</b>  | moderator<br>Marco cobbella,  |  |               |  | An Enumeration Algorithm of Minimally Rigid Graph Structure                                      | Atsushi Takizawa   |  |
| AAST WS:Algorithmic Design for<br>Desaster Prevention                                     |  |   |  |               |  | A Sustainable Timber Tectonics applying Algorithmic Design –Concept of Digital Wood Project      | Yasushi Ikeda      |  |
|   |  |   |  |               |  | Neuro fabrics w/ plants  | Tsukasa Takenaka   |  |
|   |  |   |  |               |  | Structural Optimization Method Inspired by Turing's Reaction-Diffusion Model                     | Kazuo Mitsui       |  |
|   |  |   |  |               |  | Designing an expressive exterior — applying algorithmic study to "Metal Work Shade"              | Tsukasa Ishizawa   |  |
| Lunch<br>12:15 - 13:30  | lunch box service is available<br>Group Photo will be taken at 13:15   |   |  |               |  | ALGORITHMIC PARKING  | Shuta Takagi       |  |
| Keynote Lecture X-3<br>13:30 - 14:15  | <b>Tom Verebes</b><br>Hong Kong University   | introduction:<br>Yusuke Obuchi  | session B<br><br>Design with Human Computer Interaction<br><br>15:15 - 16:45<br><br>Coffee break<br>16:45 - 17:00<br><br>session D<br>Tectonics with generative methods<br>Structural Morphogenesis<br><br>17:00-17:45 |               |  |  |                    |  |
| Keynote Lecture X-4<br>14:30 - 15:15  | <b>Kostas Terzidis</b><br>Professor, Harvard university GSD  | introduction:<br>Taro Narahara  |  |               |  | Designing One-DOF Mechanisms for Architecture by Rationalizing Curved Folding                    | Tomohiro Tachi     |  |
| Coffee break<br>15:00 - 15:15   |  |   |  |               |  | Designing User Interface for Algorithmic Design  | Yoshiaki Mima      |  |
| session A<br>Shape Grammar and Mathematical Form-finding<br><br>15:15 - 16:30             | Multiobjective Shape Optimization of Latticed Shells for Elastic Stiffness and Uniform Member Lengths<br>"Rokko Observatory" – Application of Geometric Engineering<br>Nihonbashi_0<br>Texture generation system from point cloud data acquired from a 3D laser scanner<br>Algorithmic Processes and Evolutionary Architectural Design for Non-Standard Geometries | Makoto Ohsaki<br>Ryota Kidokoro<br>Taichi Kuma<br>Tomohiro Fukuda<br>Emmanuel Ruffo     |  |               |  | surface: Fabric I/O Device for Architectural Algorithmic Design                                  | Akira Wakita       |  |
|   |  |   |  |               |  | Human Computer Interaction in Architecture: Exploring the Brain-Body-Environment Continuum       | Toru Hasegawa      |  |
|   |  |   |  |               |  | Parametricism: The imaginary bird  | Brent Klokis       |  |
|   |  |   |  |               |  | A Schematic and Semi-Logical Model of Constructive Methodology Facilitating Computational Design | Haruyuki Fujii     |  |
| Coffee break<br>16:30 - 16:45   |  |   |  |               |  |  |                    |  |
| session H<br>Generative Geometries<br>Parametric Design Optimization<br><br>16:45 - 18:00 | Generative Models Utilized for Superior Design Development<br>Why MEL?<br>Truss Optimization Using Genetic Algorithm Considering Ultimate Resistance<br>Procedural Ornament A Dataflow Approach to Subdivision<br>An experimental developable-transform based on the levelset method and topological skeleton  | Jonathan Mirtschin<br>Richard Dank<br>Huaguo Wang<br>Michael Hansmeyer<br>Jelle Feringa |  |               |  | A Space Structure Based on an Algorithm Generating Ocean Wave                                    | Shuichi Asayama    |  |
|   |  |   |  |               |  | Interdisciplinary research processes for architectural design and production                     | Kathrin Margarethe |  |
|   |  |   | A Generation System of Framework in Consideration of Characteristic of Wind Force  | Toshifumi Mae |  |  |                    |  |
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Red character indicate online presentators

Purple character indicate online presentators re-assigned to another session considering local time difference

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| session I<br>Emergence and Self-Organization<br>Heuristic Optimization of Structure<br><br>9:00 - 10:15 | Multi-Agent System Employed in Education of Parametric Non-Linear Architectural Design   | Weixin Huang  | session C<br>Computational theories applied to design<br><br>9:00 - 10:15                           | Architectural Form Created by Interaction with Wind  | Toshinobu Oku    |
|   | Messy Algorithms at the Urban Scale  | Christiane M.Herr   |   | Comparison between Top Down and Bottom Up Algorithms in Computational Design Practice                      | Satoru Sugihara  |
|   | Nurbulations: Gastrulation and Modeling Systems of Control in Generative Art   | Frederico Fialho Teixeira   |   | Analyzing Spatial Complexity within the Neighborhood of Visual Cognition                                   | Yasushi Sakai    |
|   | Encoding Behavioral Matter   | Roland Snooks   |   | Structure as Distribution  | Sawako Kajjima   |
| Coffee break<br>10:15 - 10:30   | Emerging Typologies  | Benjamin Dillenburger   | Coffee break<br>10:15 - 10:30   | Towards a Material Architecture: The Aesthetic Qualities of Algorithmic Design Processes                   | Dina Kronic      |
| session K<br>Modeling and Simulation of complex system<br><br>10:30 - 11:45                             | Structural Morphogenesis for Free Surface Shell Structure with Convexo-Concave Form of Curved Surface -Application of Genetic Algorithms with Development of Pedestrian Simulation on GPU and Interactive Visualization of Crowd Flow in Large-scale Underground Shopping Mall | Daisuke Wada  | session J<br>Form for Digital Fabrication<br>Non-Standard Production Technique<br><br>10:30 - 11:45 | Linear Folded Stripe(s)  | Rupert Maleczek  |
|   | Six Scripts for Karl Blossfeldt  | Kensuke Yasufuku  |   | Developments in Computational Design and Fabrication Methods Using Rhinoceros and Grasshopper as Platforms | Keisuke Toyoda   |
|   | Coalescence Vol.3  | P. Casey Mahon  |   | Lingering Nature   | So Sugita        |
|   | Material Organization  | Hiroko Nakatani   |   | Prêt-à-porter Parametric Design: fast, cheap, smart, appealing   | Stefano Andreani |
| Lunch<br>11:45 - 12:30  | Material Organization  | Daisuke Hirose  |   | Hyper Thread: Holistic Computation Design  | Inamura Chikara  |
| Keynote Lecture Y-1<br>12:30- 13:15   | <b>Marcos Novak</b><br>Architect, Professor, UC Santa Barbara  | introduction:<br>Naomi Matsnaga   |   |  |                  |
| Keynote Lecture Y-2<br>13:15 - 14:00  | <b>Mike Xie</b><br>Professor, RMIT University  | introduction:<br>Makoto Ohsaki  |   |  |                  |
| Panel Discussion<br><b>Education of Algorithmic Design</b><br>14:00 - 15:15                             | <b>Micel Hansmier</b> ETH Zurich CAAD<br><b>Tom Verebesr</b> Hong Kong University<br><b>Toru Hasegawa</b> Columbia University  | Yusuke Obuchi   |   |  |                  |
| Coffee break<br>15:15 - 15:30   |  |   |   |  |                  |
| session F<br>Biomimetics / Bionics /Biomimicry<br>Artificial Swarm intelligence<br>15:30-16:30          | Thinking With Computers and Fabricating With Machines<br>Interrelation of experiment and simulation in the development of Aggregate Architectures<br>Digital and virtual ecologies<br>Algorithmic Morphogenesis of Hybrid Lightweight Structures                               | Philippe Marin<br>Karola Dierichs<br>Denis Vlieghe<br>Loanna Symeonidou |   |  |                  |
| Coffee break<br>16:30 - 16:45   |  |   | Coffee break<br>16:30 - 16:45   |  |                  |
| Keynote Lecture Y-3<br>16:45 - 17:30  | <b>Hanif Kara (Video presentation)</b><br>Structural engineer, Adams Kara Taylor   | introduction<br>Mitsuhiro Kanada  |   |  |                  |
| Keynote Lecture Y-4<br>17:30 - 18:15  | <b>Michael Weinstock (Video presentation)</b><br>Architect, Professor, AA school LONDON  | introduction:<br>Yusuke Obuchi  |   |  |                  |

Reception at SASASKAWA Memorial Hall  
19:30 - 21:00

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